

Claims

- [c1] An isolated nucleic acid having at least 80% nucleic acid sequence identity to:
- (a) a nucleic acid sequence encoding the polypeptide shown in Figure 30 (SEQ ID NO:30);
 - (b) a nucleic acid sequence encoding the polypeptide shown in Figure 30 (SEQ ID NO:30), lacking its associated signal peptide;
 - (c) a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 30 (SEQ ID NO:30);
 - (d) a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 30 (SEQ ID NO:30), lacking its associated signal peptide;
 - (e) the nucleic acid sequence shown in Figure 29 (SEQ ID NO:29);
 - (f) the full-length coding sequence of the nucleic acid sequence shown in Figure 29 (SEQ ID NO:29); or
 - (g) the full-length coding sequence of the cDNA deposited under ATCC accession number 203174.

- [c2] The isolated nucleic acid of Claim 1 having at least 85% nucleic acid sequence identity to:
- (a) a nucleic acid sequence encoding the polypeptide shown in Figure 30 (SEQ ID NO:30);
 - (b) a nucleic acid sequence encoding the polypeptide shown in Figure 30 (SEQ ID NO:30), lacking its associated signal peptide;
 - (c) a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 30 (SEQ ID NO:30);
 - (d) a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 30 (SEQ ID NO:30), lacking its associated signal peptide;
 - (e) the nucleic acid sequence shown in Figure 29 (SEQ ID NO:29);
 - (f) the full-length coding sequence of the nucleic acid sequence shown in Figure 29 (SEQ ID NO:29); or
 - (g) the full-length coding sequence of the cDNA deposited under ATCC accession number 203174.

- [c3] The isolated nucleic acid of Claim 1 having at least 90% nucleic acid sequence identity to:

- (a) a nucleic acid sequence encoding the polypeptide shown in Figure 30 (SEQ ID NO:30);
- (b) a nucleic acid sequence encoding the polypeptide shown in Figure 30 (SEQ ID NO:30), lacking its associated signal peptide;
- (c) a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 30 (SEQ ID NO:30);
- (d) a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 30 (SEQ ID NO:30), lacking its associated signal peptide;
- (e) the nucleic acid sequence shown in Figure 29 (SEQ ID NO:29);
- (f) the full-length coding sequence of the nucleic acid sequence shown in Figure 29 (SEQ ID NO:29); or
- (g) the full-length coding sequence of the cDNA deposited under ATCC accession number 203174.

[c4]

The isolated nucleic acid of Claim 1 having at least 95% nucleic acid sequence identity to:

- (a) a nucleic acid sequence encoding the polypeptide shown in Figure 30 (SEQ ID NO:30);
- (b) a nucleic acid sequence encoding the polypeptide shown in Figure 30 (SEQ ID NO:30), lacking its associated signal peptide;
- (c) a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 30 (SEQ ID NO:30);
- (d) a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 30 (SEQ ID NO:30), lacking its associated signal peptide;
- (e) the nucleic acid sequence shown in Figure 29 (SEQ ID NO:29);
- (f) the full-length coding sequence of the nucleic acid sequence shown in Figure 29 (SEQ ID NO:29); or
- (g) the full-length coding sequence of the cDNA deposited under ATCC accession number 203174.

[c5]

The isolated nucleic acid of Claim 1 having at least 99% nucleic acid sequence identity to:

- (a) a nucleic acid sequence encoding the polypeptide shown in Figure 30 (SEQ ID NO:30);

- (b) a nucleic acid sequence encoding the polypeptide shown in Figure 30 (SEQ ID NO:30), lacking its associated signal peptide;
- (c) a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 30 (SEQ ID NO:30);
- (d) a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 30 (SEQ ID NO:30), lacking its associated signal peptide;
- (e) the nucleic acid sequence shown in Figure 29 (SEQ ID NO:29);
- (f) the full-length coding sequence of the nucleic acid sequence shown in Figure 29 (SEQ ID NO:29); or
- (g) the full-length coding sequence of the cDNA deposited under ATCC accession number 203174.

[c6]

An isolated nucleic acid comprising:

- (a) a nucleic acid sequence encoding the polypeptide shown in Figure 30 (SEQ ID NO:30);
- (b) a nucleic acid sequence encoding the polypeptide shown in Figure 30 (SEQ ID NO:30), lacking its associated signal peptide;
- (c) a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 30 (SEQ ID NO:30);
- (d) a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 30 (SEQ ID NO:30), lacking its associated signal peptide;
- (e) the nucleic acid sequence shown in Figure 29 (SEQ ID NO:29);
- (f) the full-length coding sequence of the nucleic acid sequence shown in Figure 29 (SEQ ID NO:29); or
- (g) the full-length coding sequence of the cDNA deposited under ATCC accession number 203174.

[c7]

The isolated nucleic acid of Claim 6 comprising a nucleic acid sequence encoding the polypeptide shown in Figure 30 (SEQ ID NO:30).

[c8]

The isolated nucleic acid of Claim 6 comprising a nucleic acid sequence encoding the polypeptide shown in Figure 30 (SEQ ID NO:30), lacking its associated signal peptide.

[c9]

The isolated nucleic acid of Claim 6 comprising a nucleic acid sequence

encoding the extracellular domain of the polypeptide shown in Figure 30 (SEQ ID NO:30).

[c10] The isolated nucleic acid of Claim 6 comprising a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 30 (SEQ ID NO:30), lacking its associated signal peptide.

[c11] The isolated nucleic acid of Claim 6 comprising the nucleic acid sequence shown in Figure 29 (SEQ ID NO:29).

[c12] The isolated nucleic acid of Claim 6 comprising the full-length coding sequence of the nucleic acid sequence shown in Figure 29 (SEQ ID NO:29).

[c13] The isolated nucleic acid of Claim 6 comprising the full-length coding sequence of the cDNA deposited under ATCC accession number 203174.

[c14] An isolated nucleic acid that hybridizes to:

- (a) a nucleic acid sequence encoding the polypeptide shown in Figure 30 (SEQ ID NO:30);
- (b) a nucleic acid sequence encoding the polypeptide shown in Figure 30 (SEQ ID NO:30), lacking its associated signal peptide;
- (c) a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 30 (SEQ ID NO:30);
- (d) a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 30 (SEQ ID NO:30), lacking its associated signal peptide;
- (e) the nucleic acid sequence shown in Figure 29 (SEQ ID NO:29);
- (f) the full-length coding sequence of the nucleic acid sequence shown in Figure 29 (SEQ ID NO:29); or
- (g) the full-length coding sequence of the cDNA deposited under ATCC accession number 203174.

[c15] The isolated nucleic acid of Claim 14, wherein said hybridization occurs under stringent conditions.

[c16] The isolated nucleic acid of Claim 14 which is at least 10 nucleotides in length.

[c17] A vector comprising the nucleic acid of Claim 1.

[c18] The vector of Claim 17, wherein said nucleic acid is operably linked to control sequences recognized by a host cell transformed with the vector.

[c19] A host cell comprising the vector of Claim 17.

[c20] The host cell of Claim 19, wherein said cell is a CHO cell, an *E. coli* or a yeast cell.

Year	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	